

B31-13

FULLMAN
FLOOR
OUTLETS



FULLMAN ADJUSTABLE WATERTIGHT FLOOR OUTLETS

PATENTED

NATIONAL CODE STANDARD



Fig. 1

4 $\frac{3}{4}$ Inch Outlet Complete (Cat. No. 421) With Bell Nozzle (Cat. No. 466)

STEEL CITY ELECTRIC COMPANY

1207-1219 WASHINGTON AVE., NORTH SIDE, PITTSBURG, PA.

SALES REPRESENTATIVES

NEW YORK	CHICAGO	SAN FRANCISCO	BUFFALO
Campbell-Stagg Co.	The I. A. Bennett Co.	Telephone Electric Equipment Co.	G. E. Bennett & Co.
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1522-26 Prospect Avenue	118 S. Forsythe Street	205 Yonge Street	

BULLETIN E—APRIL, 1911



S specialists in the manufacture of Floor Outlets, we take pleasure in presenting this bulletin to the trade. Our pioneer work and position in this line is of decided advantage to the purchaser—we can appreciate your every difficulty, and we are fully equipped with engineering ability and a modern plant to meet your needs.

Fullman Floor Outlets have increased very rapidly in adaptability and scope. The illustrations on the following pages show the various styles with explanation of details adjoining. The outlets shown are all kept in stock and immediate delivery is usual. If your particular problem is not entirely anticipated by stock designs, we will be glad to meet your needs by modifying or elaborating the present designs.

There are no known conditions of construction work that Fullman Floor Outlets have failed to fulfill, and better than could be done by other makes.

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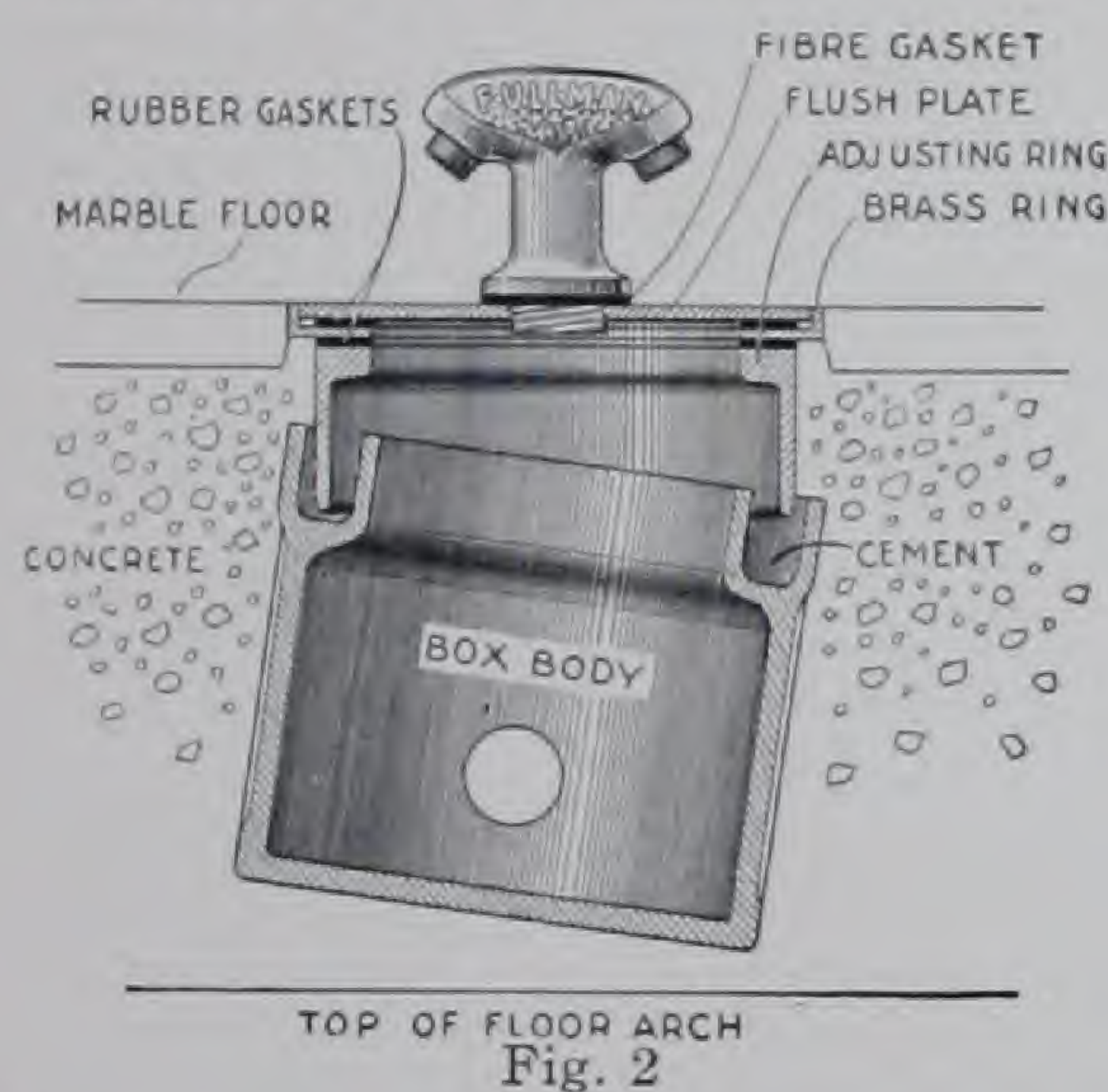
Fullman Adjustable Floor Outlets are **absolutely** the only make on the market that are **watertight** and **automatically adjustable** for **leveling** and **height**.

WATERTIGHT.

Careful study of condensation in conduits proves that the Floor Outlet must be absolutely watertight to prevent the accumulation of water in the outlet. If the Floor Outlet is not watertight a current of warm air, containing moisture, rises from the Floor Outlet to some higher open point in the conduit system and coming in contact with the comparatively cool conduit condenses this moisture. The more air that passes through the conduit the more moisture condenses and this drains from the conduit into the Outlet Box. By using watertight gasketed Floor Outlets the source of the warm air current is cut off thus preventing continued condensation.

LEVELING ADJUSTMENT.

It is a natural and very frequent condition of a Floor Outlet installation to have the Box Body out of level with the finished floor. The Box Body being set with "roughing in" work is subject to much interference by various workmen in a building.



4 1/4 in. Outlet (Cat. No. 400) with Drip Nozzle (Cat. No. 465) and Brass Flange Ring (Cat. No. 413) in use.

This causes them to be more or less out of level when the finished floor is laid. Reference to figure 2 will show how this condition is taken care of by Fullman Outlets illustrating that no matter how much the Box Body may be out of level the Cover always aligns **automatically** with the finished floor.

The adjusting ring simply dips into the groove more on one side than on the other. No other form accomplishes adjustment without a great deal of time and trouble in fitting extra gaskets to block up the Cover Plate or setting adjusting screws to raise or lower the Cover until it comes even with the floor. The automatic adjustment of Fullman Outlets is a very important labor saving feature.

VERTICAL ADJUSTMENT.

Fullman Floor Outlets also provide for vertical adjustment of Cover where floor level alterations make it necessary to raise or lower the Cover after the Box Body has been set or installed. This is accomplished automatically by the raising or lowering

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FULLMAN ADJUSTABLE WATERTIGHT FLOOR OUTLETS

of the Adjusting Ring in the groove of the Box Body. Stock Adjusting Rings provide for a maximum vertical adjustment of $2\frac{1}{2}$ inches.

When the Adjusting Ring is properly set it is sealed to the Box Body by means of a cement with which the groove in the Box Body is filled. This cement being an electrical conductor not only unites the two parts mechanically but also electrically. This method of adjustment and uniting the two parts insures even distribution of stresses on the Cover Plate and avoids adjusting screw troubles such as stripped threads and collars or buckling of screws as is liable to occur when a desk or any other heavy object is allowed to rest on the Cover Plate.

ADJUSTING RINGS.

See full description and illustrations on page ten.

COVER PLATES.

The Cover plates of $4\frac{1}{4}$ in., $4\frac{3}{4}$ in., $7\frac{1}{2}$ in. and Gang Outlets are furnished with either $\frac{1}{2}$ in. or 2 in. Flush Plugs to take Drip or Bell Nozzles as desired. The $7\frac{1}{2}$ in. Outlets can be furnished with Drip, Bell or Four Way Nozzles. The $7\frac{1}{2}$ in. Outlets take $4\frac{3}{4}$ in. Cover Plates.

Square Cover Plates can be furnished for any round outlets to order—special.

All Covers and Nozzles are made of brass.

NOZZLES.

Drip Nozzles fit Covers with $\frac{1}{2}$ in. Flush Plugs and are used on Outlets when no connections are made for receptacles.

Bell Nozzles fit Covers with 2 in. Flush Plugs adapting Outlets for all standard styles of porcelain plugs and receptacles, the plugs of which can be inserted or removed without disturbing the Cover Plate.

Four-Way Nozzles are used only with the $7\frac{1}{2}$ in. Round Outlets with four partitions.

BRASS FLANGE RINGS

See full description and illustration on page eleven.

CONDUIT HOLES.

The Box Bodies of $4\frac{1}{4}$ in. and $4\frac{3}{4}$ in. Outlets are drilled and tapped with four $\frac{1}{2}$ in. conduit holes, three of which are closed with slotted steel screw plugs. The Box Bodies of Gang Outlets are drilled and tapped with $\frac{1}{2}$ in. conduit holes. All except one in each section are closed with slotted steel screw plugs. **When special drilling is desired, a sketch must be furnished giving size and location of conduit holes.** Conduit holes are threaded unless specified otherwise.

FINISH.

All brass parts are polished and all iron or steel parts are Sherardized to prevent rust.

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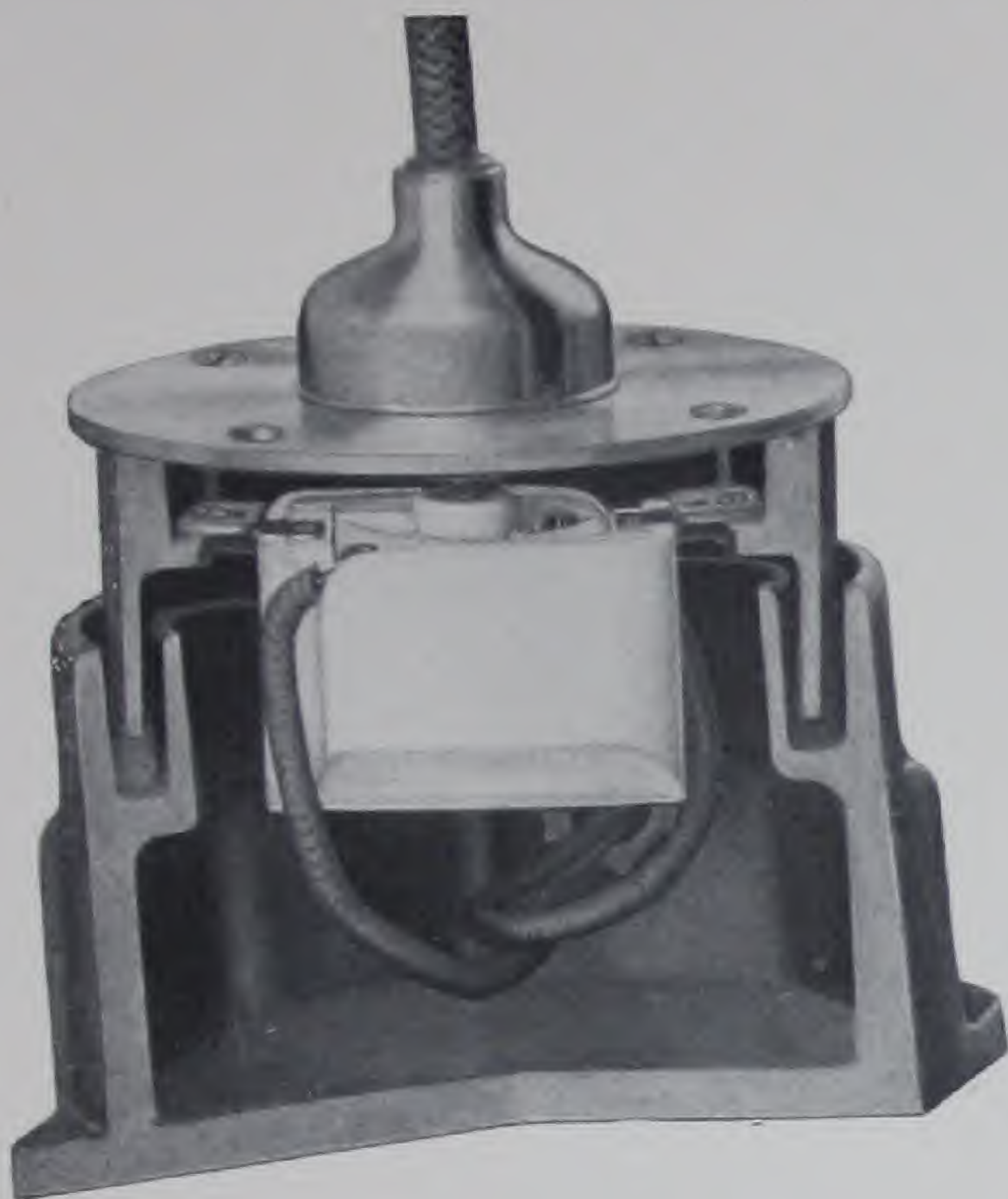


Fig. 3.

Sectional view, showing 4 $\frac{3}{4}$ in. Outlet (Cat. No. 421) with Bell Nozzle (Cat. No. 466) and a standard flush plug and receptacle.

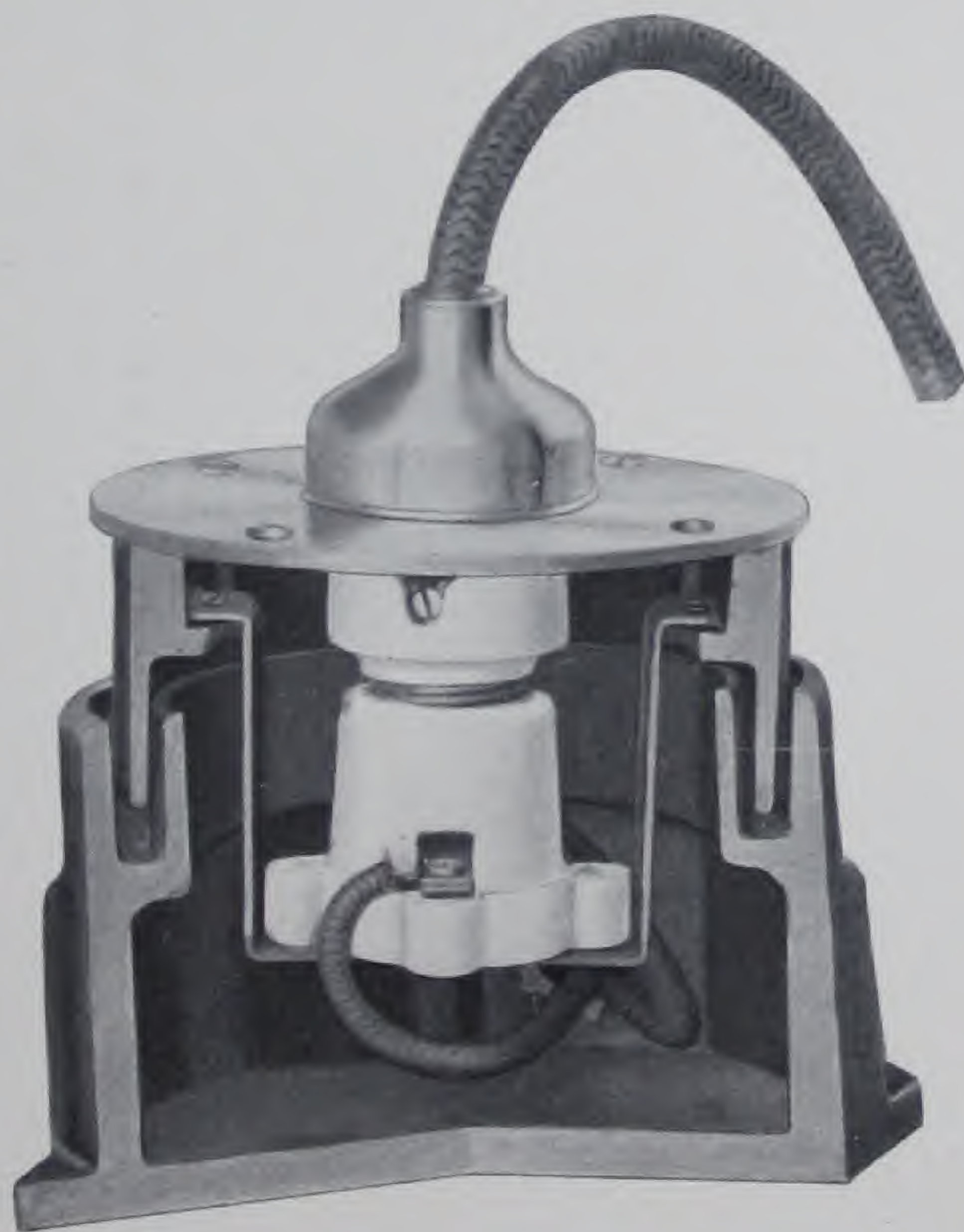


Fig. 4.

Sectional view, showing 4 $\frac{3}{4}$ in. Outlet (Cat. No. 421) with Bell Nozzle (Cat. No. 466) Receptacle Strap (Cat. No. 475) and a standard receptacle and plug.

See Pages 9 and 10 for Dimensions of Height

FULLMAN ADJUSTABLE WATERTIGHT FLOOR OUTLETS

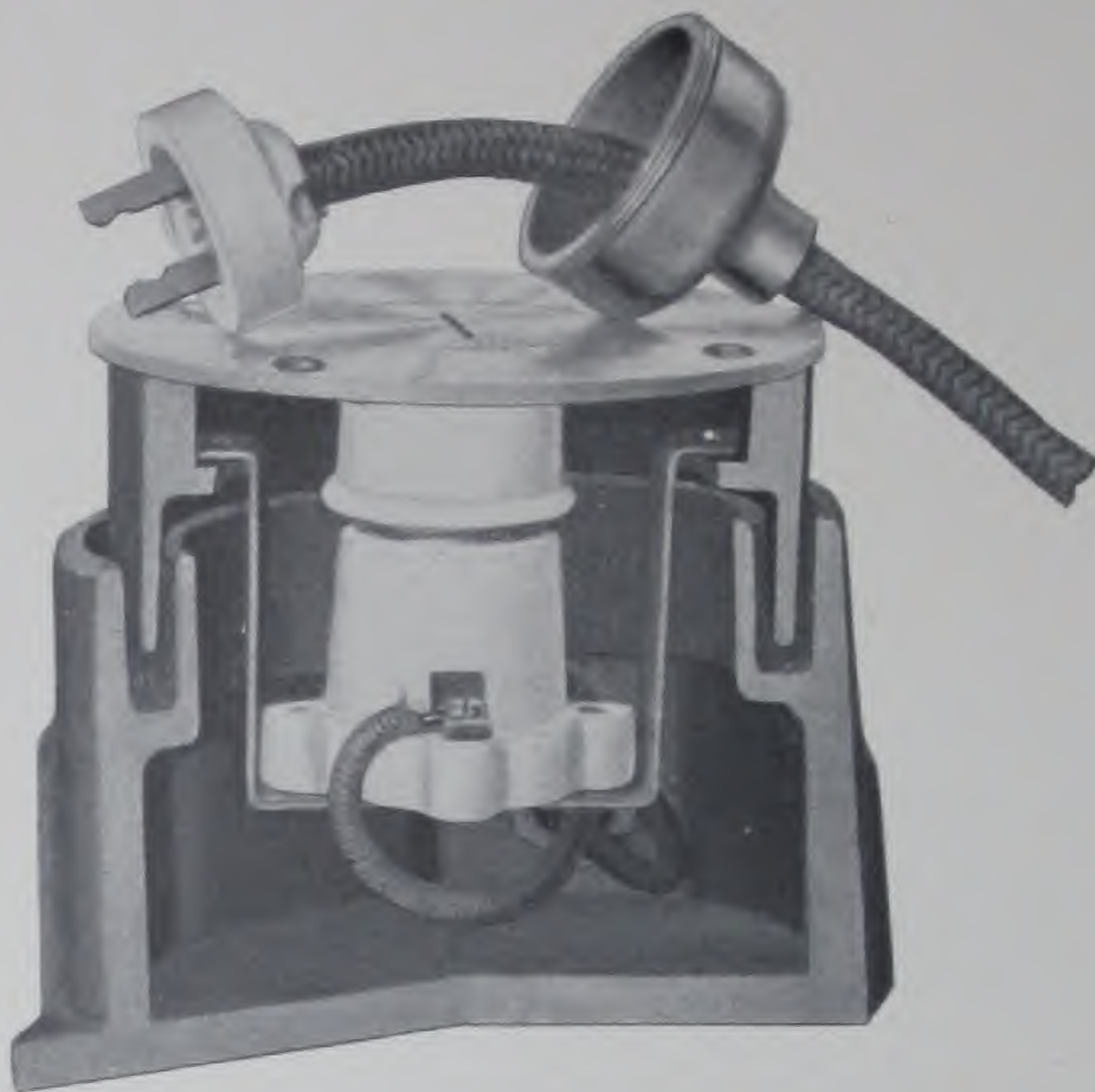


Fig. 5.

Sectional view showing 4 $\frac{3}{4}$ in. Outlet (Cat. No. 421) with Bell Nozzle (Cat. No. 466) Receptacle Strap (Cat. No. 475) and a standard receptacle and Hubble plug.

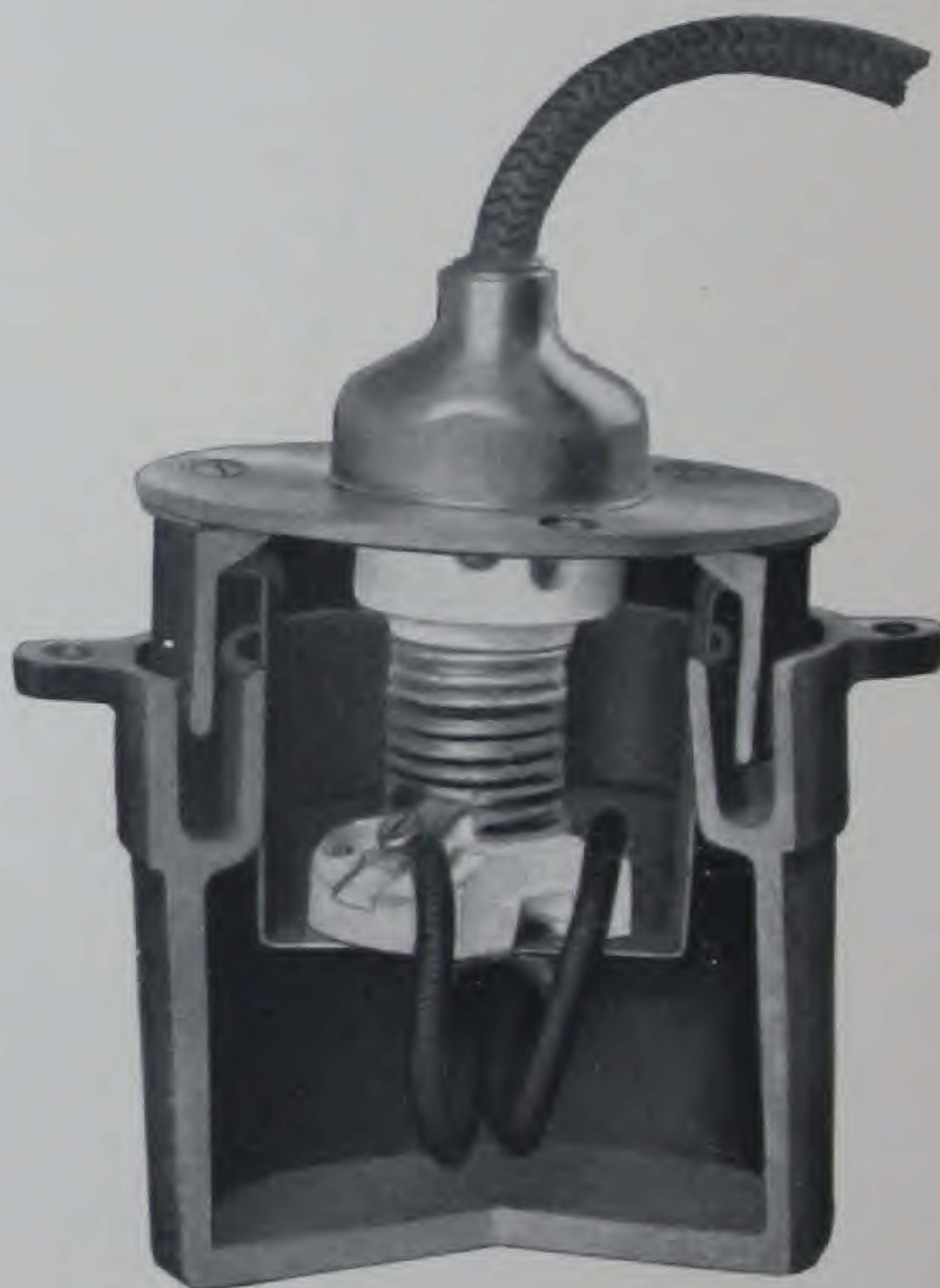


Fig. 6.

Sectional view, showing 4 $\frac{1}{4}$ in. Outlet (Cat. No. 401) with Bell Nozzle (Cat. No. 466) Receptacle Strap (Cat. No. 475) and a standard receptacle and plug.

See Pages 9 and 10 for Dimensions of Height

FULLMAN ADJUSTABLE WATERTIGHT FLOOR OUTLETS

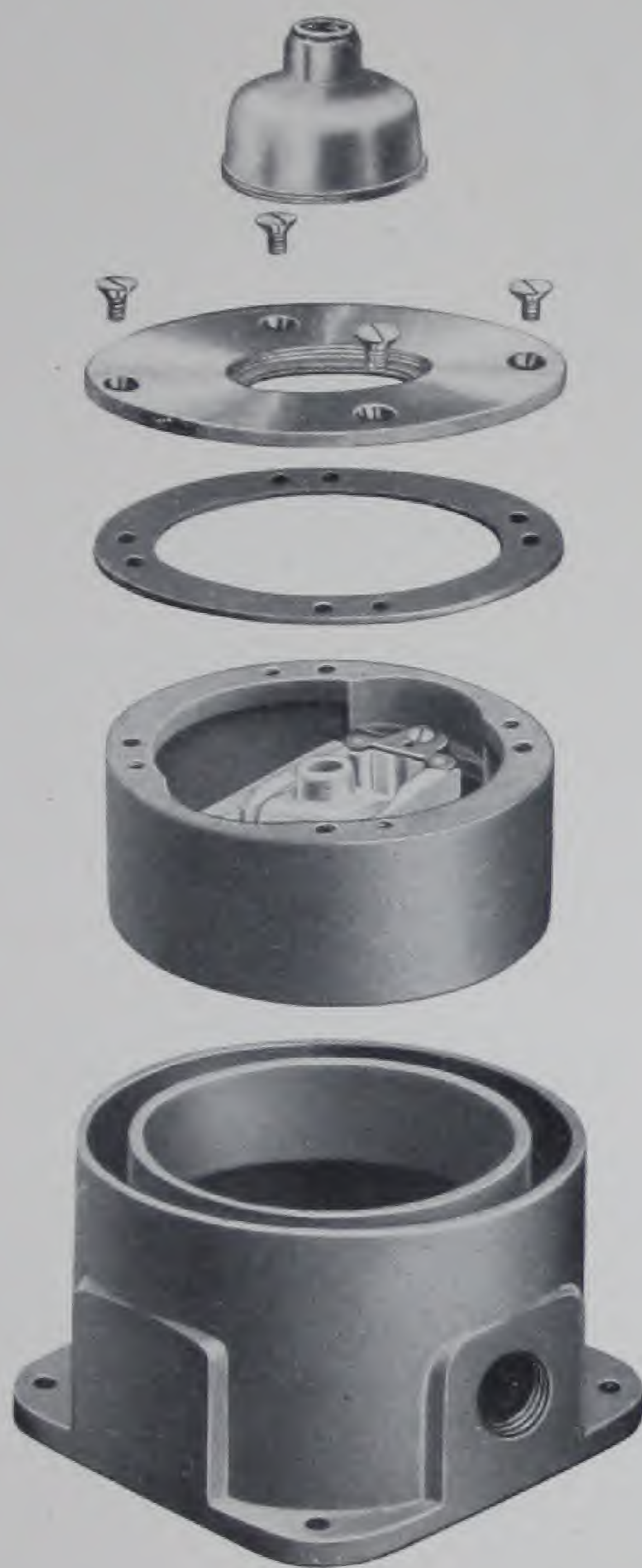


Fig. 7.

Assembly view of $4\frac{3}{4}$ in. Outlet complete (Cat. No. 421) with Bell Nozzle (Cat. No. 466). A standard flush plug and receptacle is shown attached to Iron Adjusting Ring.

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Fig. 8.

Assembly view of 4 $\frac{1}{4}$ in. Outlet (Cat. No. 400) complete with Drip Nozzle (Cat. No. 465).

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Fig. 9.

Standard $4\frac{3}{4}$ in. Box Body
(Cat. No. 422).

Minimum height of Outlet
to top of Cover Plate, $3\frac{1}{2}$ ins.

Net opening in top $3\frac{1}{2}$ ins.
For conduits up to 1 in. with
Bushing or up to $1\frac{1}{4}$ in.
without Bushing.



Fig. 10.

Standard $4\frac{1}{4}$ in. Box Body
(Cat. No. 402).

Minimum height of Outlet
to top of Cover Plate, $4\frac{1}{8}$ ins.

Net opening in top, 3 ins.
For conduits up to 1 in.
with Bushing or up to $1\frac{1}{2}$
without Bushing.



Fig. 11.

Special Shallow $4\frac{1}{4}$ in. Box
Body (Cat. No. 403). Minimum
height of Outlet to top
of Cover Plate, $3\frac{1}{8}$ ins. Net
opening in top, 3 ins. For
conduits up to $\frac{3}{4}$ in. with
Bushing or up to 1 in. with-
out Bushing.



Fig. 12.

Special $4\frac{1}{4}$ in. Box Body
(Cat. No. 404). Minimum
height of Outlet to top
of Cover Plate, $4\frac{1}{8}$ ins. Net
opening in top of Box Body is
3 ins. For conduits up to $1\frac{1}{2}$
in. with Bushing or up to 2 in.
without Bushing.

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Fig. 13. (Catalog No. 431).

Iron Adjusting Rings for $4\frac{3}{4}$ inch Outlets.

The standard over all lengths of Iron Adjusting Rings for $4\frac{3}{4}$ inch Outlets are $1\frac{1}{4}$ inches, $1\frac{7}{8}$ inches, $2\frac{1}{2}$ inches and $3\frac{1}{8}$ inches. The $1\frac{1}{4}$ inch ring is always sent unless otherwise specified (See list of separate parts, Page 16, for catalogue numbers of other sizes.)



Fig. 14. (Catalog No. 405).

Iron Adjusting Rings for $4\frac{1}{4}$ inch Outlets.

The standard over all lengths of Iron Adjusting Rings for $4\frac{1}{4}$ inch Outlets are $1\frac{1}{4}$ inches, $1\frac{7}{8}$ inches, $2\frac{1}{2}$ inches and $3\frac{1}{8}$ inches. Receptacles can only be used with these rings by using Receptacle Strap, Catalog No. 475. The $1\frac{1}{4}$ inch ring is always sent unless otherwise specified. (See list of separate parts Page 16 for catalog numbers of other sizes.)

The Adjusting Rings specified above will give a range of adjustment of about $2\frac{1}{2}$ inches, depending slightly on the angle at which the Box Body happens to set in the floor. All rings of same diameter are interchangeable and may be exchanged without extra charge.

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Fig. 15. Brass Flange Ring.

$4\frac{1}{4}$ inch.....Catalog No. 413.
 $4\frac{3}{4}$ inch.....Catalog No. 440.

These are recommended for use in marble, mosaic cement, granolithic or rubber tile floors to prevent chipping of flooring upon repeated removal of Cover Plate. They are furnished for use with $4\frac{1}{4}$ in., $4\frac{3}{4}$ in. and $7\frac{1}{2}$ in. Outlets only. The $7\frac{1}{2}$ in. Outlets take the $4\frac{3}{4}$ in. Brass Flange Rings. (See Fig. 2 on Page 3, showing application in marble or tile floors). Extra Rubber Gaskets are required for Brass Flange Rings.



Fig. 16. Catalog No. 466
Bell Nozzle.

For use on Covers with 2 in. Plugs where a porcelain plug and receptacle is required. Can be used on $4\frac{1}{4}$ inch Outlet by using Cover Plate with 2 inch plug. (Cat. No. 410).



Fig. 17. Catalog No. 465
Drip Nozzle.

This Nozzle is used on Covers with $\frac{1}{2}$ inch Plugs where porcelain plug and receptacle is unnecessary. Can be used on $4\frac{3}{4}$ inch Outlet by using Cover Plate with $\frac{1}{2}$ inch plug. (Cat. No. 435).



Fig. 18. Catalog No. 467.
Four Way Nozzle.

For use with $7\frac{1}{2}$ inch Outlet, only when provided with four partitions.



Fig. 19. Catalog No. 437.
 $4\frac{3}{4}$ in. Cover Plate for $7\frac{1}{2}$ inch Outlet, only when provided with four partitions.

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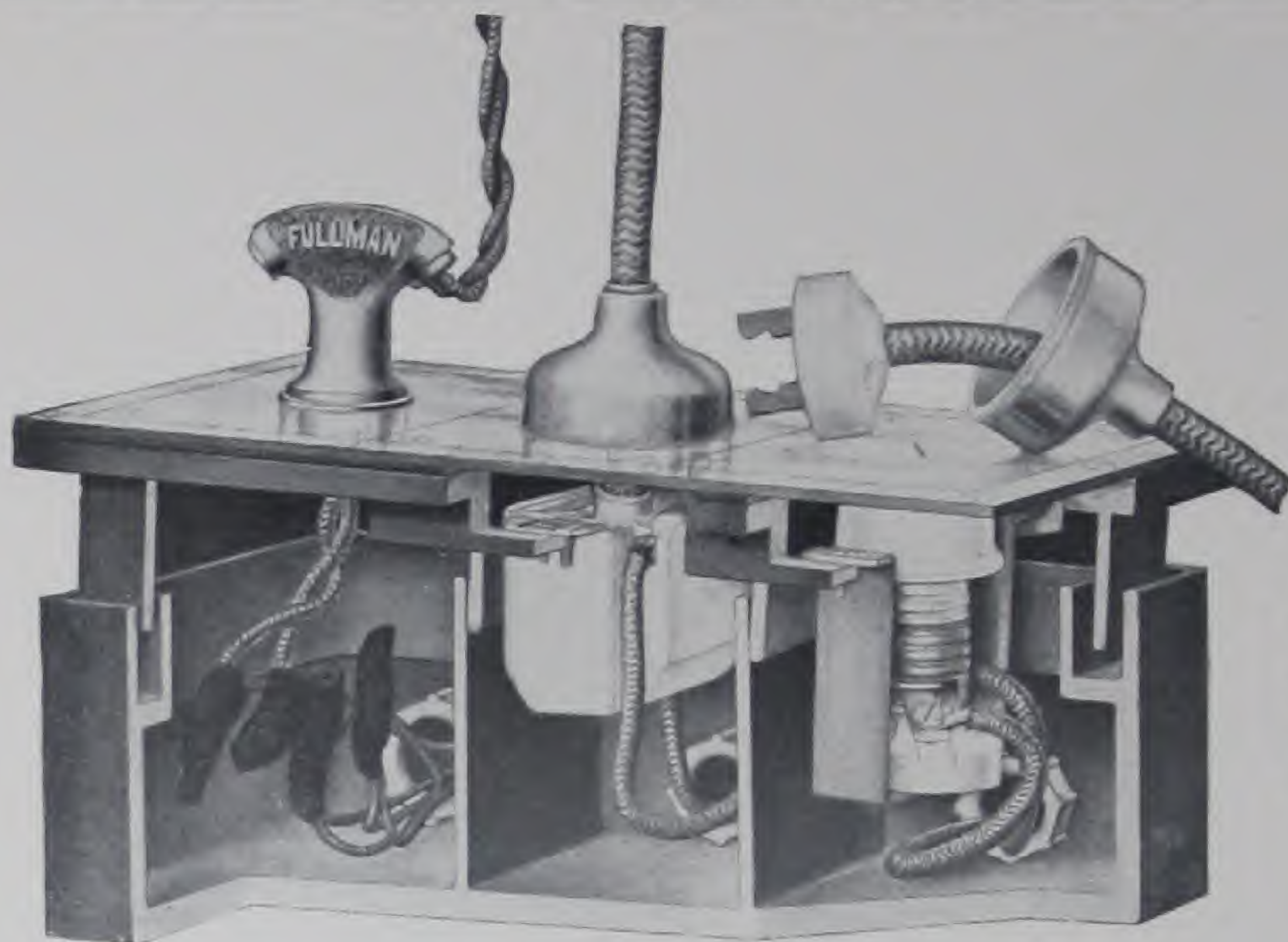
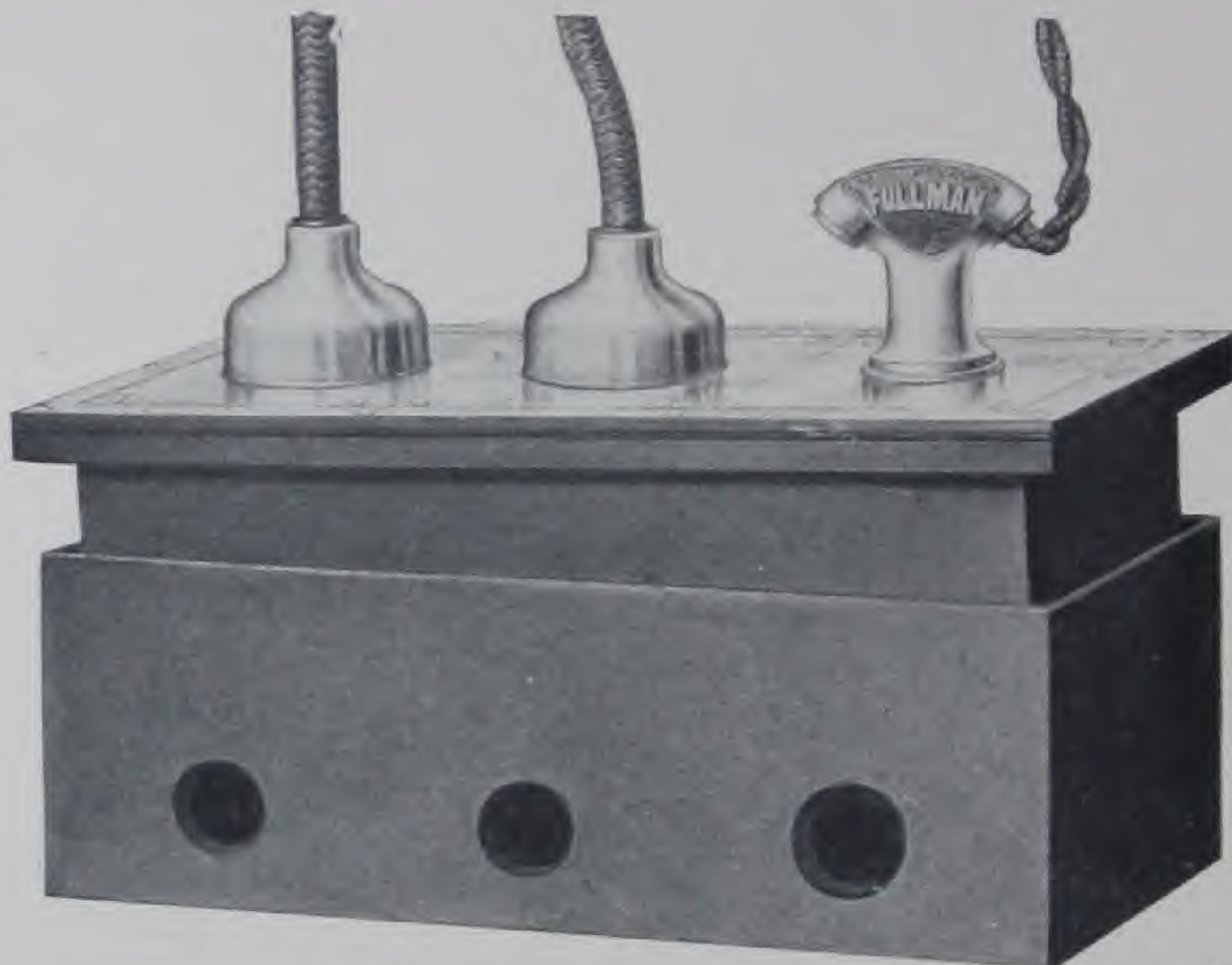


Fig. 20.

Sectional view of Three Gang Outlet showing Drip and Bell Nozzles in use and 2 in. Flush Plug in one cover.

Fig. 21.

External view of Three Gang Outlet showing Drip and Bell Nozzles in use.



GANG OUTLETS.

Rectangular Gang Outlets are furnished for supplying a variety of service such as electric lights, fans, telephones, etc., from one point. These Outlets make a great improvement over the appearance of several single outlets grouped near a desk or table. Furnished in two to six sections with Covers for $\frac{1}{2}$ in. or 2 in. Flush Plugs for Drip or Bell Nozzles as desired. A Brass Edge Frame extends around the Covers of Gang Outlets and accomplishes the same result as the Brass Flange Ring on the Round Outlets. All Gang Outlets measure $5\frac{1}{2}$ in. wide. Two Gang is 7 in. long. Each additional section adds 3 in. to length. Six Gang Outlets are 19 in. long. Minimum height of all Gang Outlets is 4 inches.

Each section of the Adjusting Frames of Gang Outlets is provided with lugs for receptacles or Receptacle Strap (Cat. No. 475).

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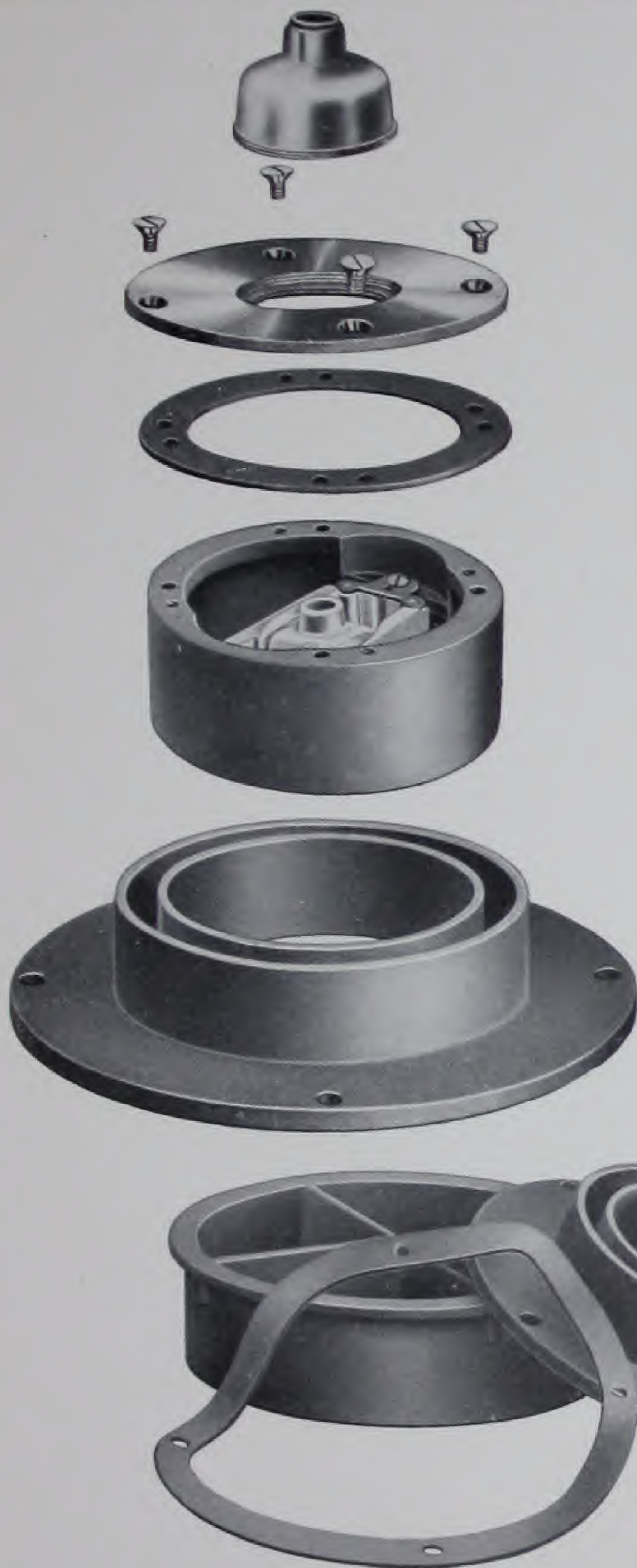


Fig. 22.

Assembly view of $7\frac{1}{2}$ inch flange top (Cat. No. 428) with $4\frac{3}{4}$ inch Adjusting Ring, Gasket, Cover Plate and Bell Nozzle. A standard flush plug and receptacle is shown attached to Iron Adjusting Ring.

Fig. 23.

$7\frac{1}{2}$ inch Box Body and Flange Top with gasket (Cat. No. 427) provided with four partitions. This Outlet can also be furnished without partitions if desired. When Outlet with four partitions is furnished the Four Way Nozzle should be used. When furnished without partitions either Cover with $\frac{1}{2}$ in. or 2 in. Flush Plug may be used for Drip or Bell Nozzle. Diameter of Cover is $4\frac{3}{4}$ inches and the Adjusting Rings are the same as furnished with $4\frac{3}{4}$ inch Outlets. Minimum height to top of Cover Plate is $4\frac{1}{4}$ inches.

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The setting and adjustment of Fullman Outlets is extremely simple, but the following may be of service in illustrating the details. Complete instructions sent with each outlet.

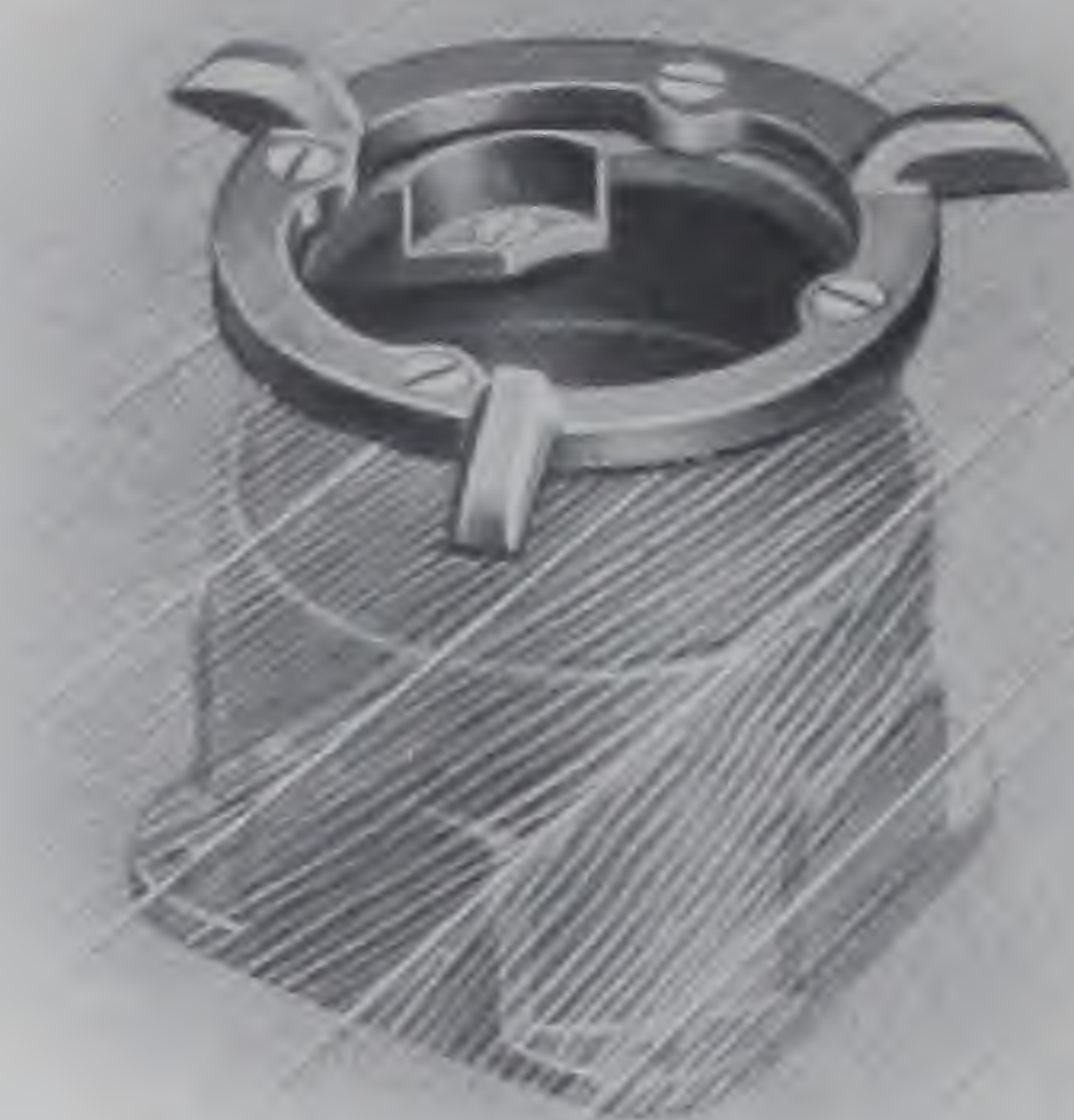


Fig. 24.

Phanton view showing method of using Template (Cat. Nos. 412 and 439) for setting Iron Adjusting Rings in wooden floors.

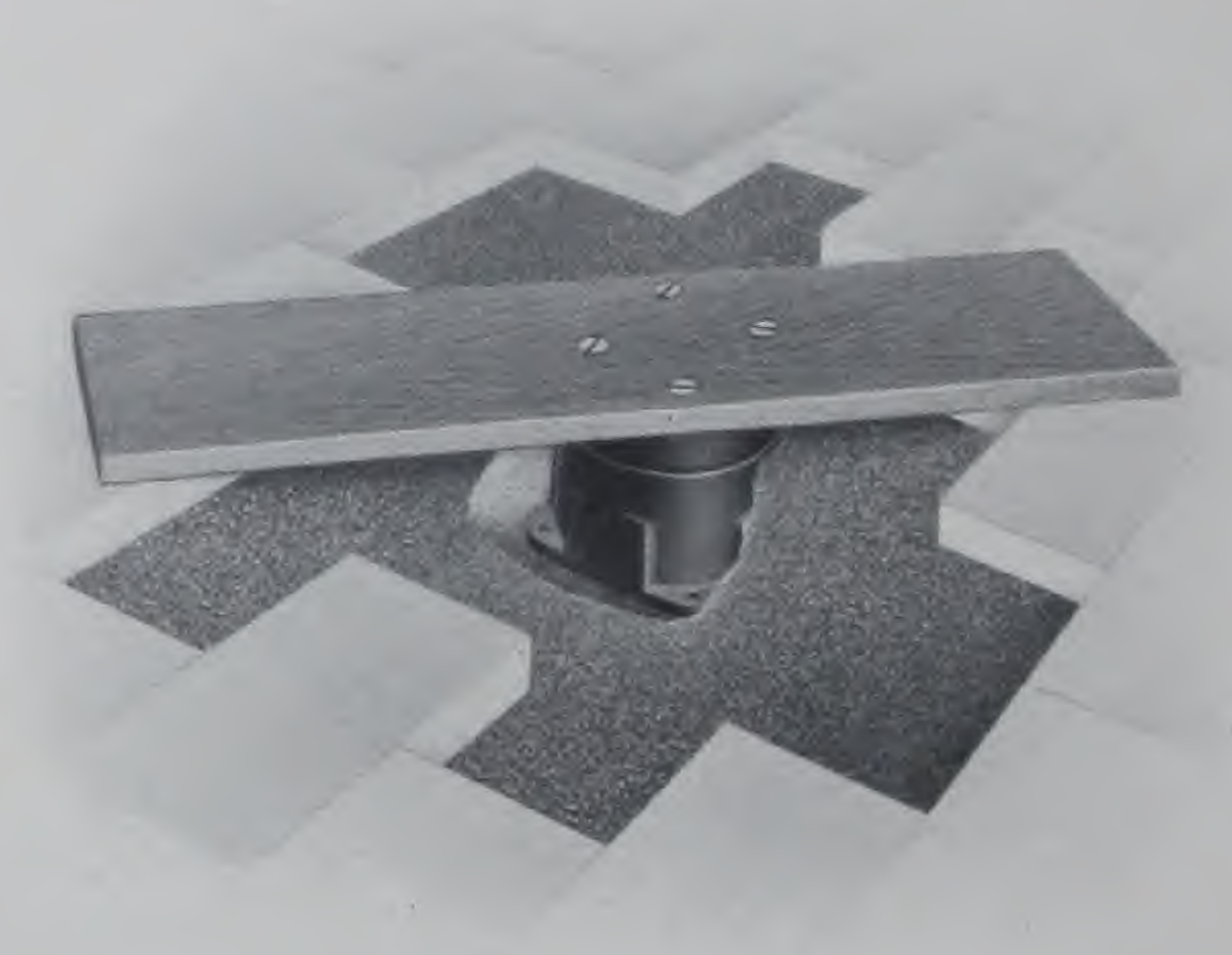


Fig. 25.

View showing method of setting Iron Adjusting Ring in marble floor. The piece of board is used for the same purpose as the Template shown in Fig. 24.

The Cement sent with each Outlet is filled into the groove in the Box Body. The Iron Adjusting Ring is pressed down into the groove until the arms of Template or ends of board rest on the floor. When the Cement has hardened the Template is removed and the Rubber Gasket and Cover Plate are fastened to the Adjusting Ring.

PRICE LIST

of complete Adjustable Watertight Outlets and separate parts. Nozzles, Brass Flange Rings and Receptacle Straps, Catalog Nos. 413-440-475 are not included in list prices of complete Adjustable Floor Outlets. Complete Outlets consist of Box Body, Sealing Compound, Iron Adjusting Ring, Rubber Gasket, Brass Cover Plate and Brass Plug. Size of 4 $\frac{1}{4}$ in. and 4 $\frac{3}{4}$ in. Outlets refers to diameter of Cover Plate. **Porcelain Receptacles and Attachment Plugs Illustrated with Outlets are not furnished by us and are not included in the following list prices of Floor Outlets:**

Cat. No.	Code Word	Size		List Price Each
400	Fadge	4 $\frac{1}{4}$ in.	Round Outlet complete with $\frac{1}{2}$ in. Brass Plug in Cover for Drip Nozzle.....	\$4.00
401	Fady	4 $\frac{1}{4}$ in.	Round Outlet complete with 2 in. Brass Plug in Cover for Bell Nozzle.....	4.50
420	Fames	4 $\frac{3}{4}$ in.	Round Outlet complete with $\frac{1}{2}$ in. Brass Plug in Cover for Drip Nozzle.....	4.50
421	Family	4 $\frac{3}{4}$ in.	Round Outlet complete with 2 in. Brass Plug in Cover for Bell Nozzle.....	5.00
423	Famp	7 $\frac{1}{2}$ in.	Round Outlet complete (no partitions) with $\frac{1}{2}$ in. Brass Plug in 4 $\frac{3}{4}$ in. Cover Plate for Drip Nozzle.....	5.55
424	Fand	7 $\frac{1}{2}$ in.	Round Outlet complete (no partitions) with 2 in. Brass Plug in 4 $\frac{3}{4}$ in. Cover Plate for Bell Nozzle.....	6.05
425	Fane	7 $\frac{1}{2}$ in.	Round Outlet complete (with partitions) with Brass Plug in 4 $\frac{3}{4}$ in. Cover Plate for Four-Way Nozzle.....	8.05
446	Fenix		Rectangular Gang Outlet section complete with $\frac{1}{2}$ in. Brass Plug in Cover for Drip Nozzle.....	5.00
447	Fent		Rectangular Gang Outlet Section complete with 2 in. Brass Plug in Cover for Bell Nozzle.....	5.50
413	Falces	4 $\frac{1}{4}$ in.	Brass Flange Ring (Fig. 15).....	.75
440	Fauna	4 $\frac{3}{4}$ in.	Brass Flange Ring (Fig. 15).....	1.00
465	Fitten		Drip Nozzle (Fig. 17).....	1.00
466	Fixate		Bell Nozzle (Fig. 16).....	1.00
467	Fixity		Four-Way Nozzle (Fig. 18).....	2.14
471	Fairlee	$\frac{1}{2}$ in.	Flush Brass Plug.....	.15
472	Fairplay	2 in.	Flush Brass Plug.....	.35
473	Flail		Flush Brass Plug for Four-Way Nozzle....	.54
474	Flir		Add for exchange of any size Brass Cover for the same size fitted for the Bell or Four-Way Nozzle instead of for Drip Nozzle (Plugs not included).....	.31
475	Flake		Steel Strap for holding Receptacle No. 50715 or No. 9397.....	.40
402	Fae	4 $\frac{1}{4}$ in.	Round Outlet, Box Body only (Fig. 10)....	2.27
403	Faem	4 $\frac{1}{4}$ in.	Round Outlet, Box Body only (Shallow style) (Fig. 11).....	2.27
404	Faff	4 $\frac{1}{4}$ in.	Round Outlet, Box Body only (For large conduits) (Fig. 12).....	2.27
405	Fagin	4 $\frac{1}{4}$ in.	Iron Adjusting Ring, 1 $\frac{1}{4}$ in. long (Fig. 14)..	.50
406	Fagot	4 $\frac{1}{4}$ in.	Iron Adjusting Ring, 1 $\frac{7}{8}$ in. long.....	.50
407	Fags	4 $\frac{1}{4}$ in.	Iron Adjusting Ring, 2 $\frac{1}{2}$ in. long.....	.50
408	Faik	4 $\frac{1}{4}$ in.	Iron Adjusting Ring, 3 $\frac{1}{8}$ in. long.....	.50

(Continued on page 16)

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Cat. No.	Code Word	Size		List Price Each
409	Fain	4 $\frac{1}{4}$ in.	Brass Cover Plate and $\frac{1}{2}$ in. Plug for Drip Nozzle.....	1.06
410	Fair	4 $\frac{1}{4}$ in.	Brass Cover Plate and 2 in. Plug for Bell Nozzle.....	1.56
411	Fakin	4 $\frac{1}{4}$ in.	Cover Gasket.....	.07
412	Fala	4 $\frac{1}{4}$ in.	Template for setting covers.....	No charge
422	Famous	4 $\frac{3}{4}$ in.	Round Outlet, Box Body only (Fig. 9)....	2.60
431	Farder	4 $\frac{3}{4}$ in.	Iron Adjusting Ring, 1 $\frac{1}{4}$ in. long (Fig. 13)...	.58
432	Farley	4 $\frac{3}{4}$ in.	Iron Adjusting Ring, 1 $\frac{7}{8}$ in. long.....	.58
433	Farina	4 $\frac{3}{4}$ in.	Iron Adjusting Ring, 2 $\frac{1}{2}$ in. long.....	.58
434	Farwell	4 $\frac{3}{4}$ in.	Iron Adjusting Ring, 3 $\frac{1}{8}$ in. long.....	.58
435	Farynx	4 $\frac{3}{4}$ in.	Brass Cover Plate and $\frac{1}{2}$ in. Plug for Drip Nozzle.....	1.14
436	Fasti	4 $\frac{3}{4}$ in.	Brass Cover Plate and 2 in. Plug for Bell Nozzle.....	1.64
437	Fathen	4 $\frac{3}{4}$ in.	Brass Cover Plate and Plug for Four-Way Nozzle (Fig. 19).....	1.72
438	Fated	4 $\frac{3}{4}$ in.	Cover Gasket.....	.08
439	Fauld	4 $\frac{3}{4}$ in.	Template for setting Covers.....	No charge
426	Fanal	7 $\frac{1}{2}$ in.	Round Outlet, Box Body only (no partitions) with Gasket and Grooved Flange.....	3.65
427	Fanar	7 $\frac{1}{2}$ in.	Round Outlet, Box Body only (with partitions) with Gasket and Grooved Flange (Fig. 23).....	4.43
428	Fang	7 $\frac{1}{2}$ in.	Grooved Flange only and Gasket (no partitions) (Fig. 22).....	1.15
429	Farad	7 $\frac{1}{2}$ in.	Grooved Flange only and Gasket (with partitions).....	1.21
448	Feonu		2 section Gang Box Body only.....	4.40
449	Feral		3 section Gang Box Body only.....	6.60
450	Fere		4 section Gang Box Body only.....	8.80
451	Ferly		5 section Gang Box Body only.....	11.00
452	Ferm		6 section Rectangular Gang Box Body only..	13.20
453	Ferth		2 section Gang Iron Adjusting Frame with Gasket and Brass Edge Frame.....	3.48
454	Fess		3 section Gang Iron Adjusting Frame with Gasket and Brass Edge Frame.....	5.22
455	Fewel		4 section Gang Iron Adjusting Frame with Gasket and Brass Edge Frame.....	6.96
456	Fibro		5 section Gang Iron Adjusting Frame with Gasket and Brass Edge Frame.....	8.70
457	Finely		6 section Gang Iron Adjusting Frame with Gasket and Brass Edge Frame.....	10.44
458	Finny	3 in. x 4 $\frac{1}{2}$ in.	Brass Cover Plate for one section of Rectangular Gang Box with $\frac{1}{2}$ in. Plug for Drip Nozzle.....	.96
459	Finto	3 in. x 4 $\frac{1}{2}$ in.	Brass Cover Plate for one section of Rectangular Gang Box with 2 in. Plug for Bell Nozzle.....	1.46
468	Fizz		Drip Nozzle Gasket only.....	.01
469	Fause		Bell Nozzle Gasket only.....	.06
470	Fade		Four-Way Nozzle Gasket only.....	.04
476	Flax		Portion of Sealing Compound for one Outlet	.10

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